INTERACTIVE BROCHURE

Smart Conversion mode

Zero trade-off between unprecedented efficiency and uninterruptible availability

When **energy** matters

socomec
Innovative Power Solutions

Empowering the future of Data Centres

In the face of rising energy costs and increasingly complex sustainability challenges, **Data Centres must continually optimise their operations**. An unwavering focus on reducing the Total Cost of Ownership (TCO) and enhancing Power Usage Effectiveness (PUE) is critical to ensure that Data Centres of every shape and size are fit for the future.

Managing this careful balancing act demands a dependable power supply in order to prevent interruptions and maintain seamless operations. Optimising energy consumption not only enables Data Centres to meet sustainability goals and reduce their carbon footprint but also to achieve significant cost savings. Greater efficiencies will enhance energy usage, reduce operational costs and boost overall competitiveness.

Socomec's Smart Conversion mode revolutionises UPS operation by combining the highest level of efficiency on the market with uncompromised resilience for your Data Centre.

Smart Conversion mode:
Achieve your best possible efficiencies - without compromise. Let's go!

Socomec's Smart Conversion mode has been approved by several leading Data Centre operators, offering significant reductions in UPS energy losses and CO_2 emissions, while ensuring the security of critical loads. This solution ensures that Data Centres benefit from both uninterruptible protection and operational excellence, making it the ideal choice for meeting the evolving demands of modern Data Centre operations.

0 ms
transfer
to VFI mode in the event of network disturbances — ensuring **uninterrupted continuity** compliant with IEC 62040 Class 1 standard.

99.1%
efficiency
certified at full load — cutting energy wastage for a tangible **TCO reduction**.

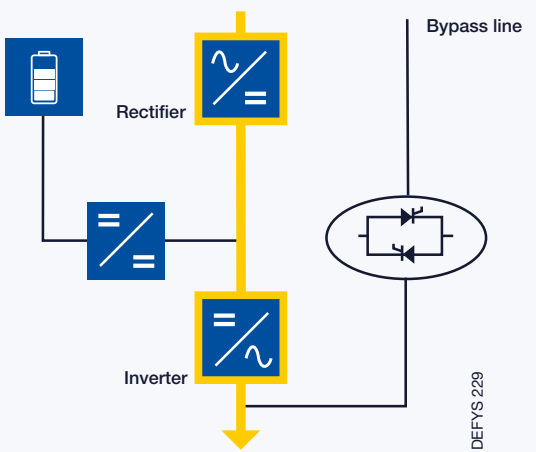
80%
reduction
in CO_2 emissions — minimising your carbon footprint for **greater sustainability**.

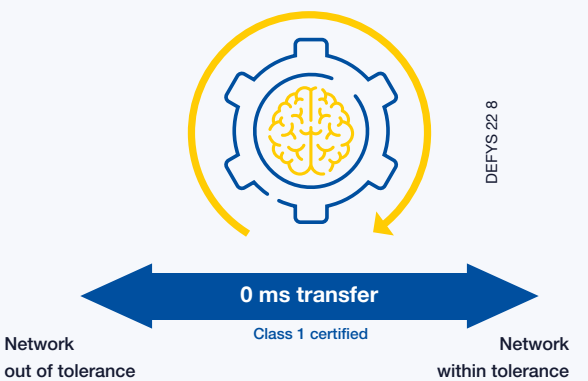
This mode is available for ***MODULYS XL*** and ***DELPHYS XL***

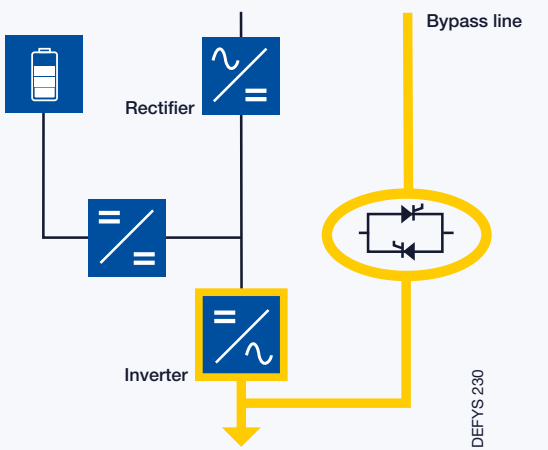
Smart Conversion mode : how does it work ?

Smart Conversion mode uses an **advanced algorithm** to continuously monitor the network quality, dynamically selecting the most optimised mode for supplying the load. This ensures maximum efficiency while prioritising power quality for critical loads.

By combining the high efficiency of the static bypass with the active inverter that's synchronised with the network, Smart Conversion mode delivers unprecedented efficiency with confidence, even during grid perturbations.







Double Conversion Mode (VFI)

Inverters are always activated, taking the load instantaneously in double conversion in the event of grid disturbances.

Line interactive

Combination of the highly efficient static bypass in parallel with the inverter working as an active filter.

Field-proven technology that's third-party certified

Third-party certified performance

99.1% CERTIFIED

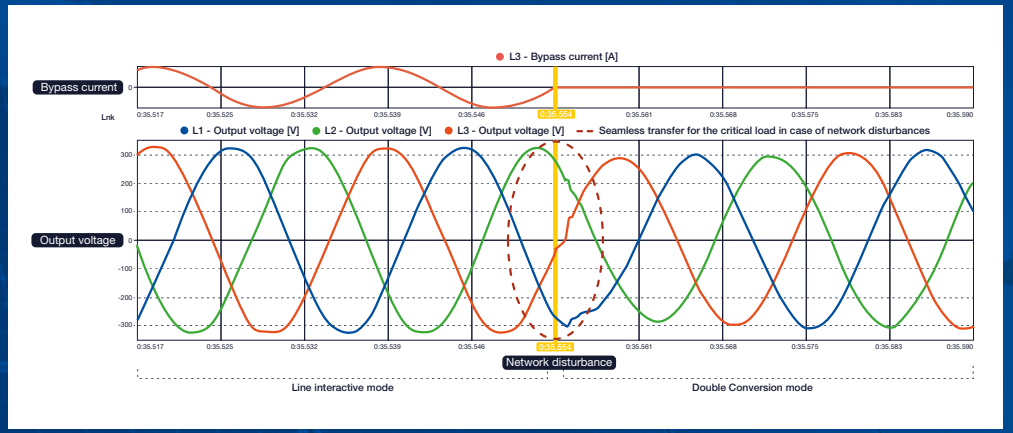
Smart Conversion mode is recognised and certified by a third-party laboratory, offering efficiencies **up to 99.1%.** This means it experiences **5 times less energy loss** per year compared to traditional Double Conversion mode, saving up to 350 MWh annually based on a 1.2 MW UPS running at full load.

350 MWh
early savings versus double conversion

100 k€ savings
in under two years of UPS usage

1 year
of Data Centre lighting costs

2 500 m²
of solar panel production



Third-party certified power continuity

CLASS 1 CERTIFIED

Smart Conversion mode is recognised and certified by a third-party laboratory to ensure the power quality of the critical load in the event of network disturbance. It delivers **a Class 1 transfer** in accordance with the IEC 62040-3 standard for double conversion.

Whatever the network conditions, the load is always protected with high quality voltage.

Socomec: our innovations supporting your energy performance

1 independent manufacturer

4,200 employees worldwide

8 % of sales revenue dedicated to R&D

400 experts dedicated to service provision

Your power management expert

POWER SWITCHING | POWER MONITORING | POWER CONVERSION | ENERGY STORAGE | EXPERT SERVICES

A worldwide presence

12 production sites
- France (x3)
- Italy (x2)
- Tunisia
- India
- China (x2)
- USA (x2)
- Canada

30 subsidiaries and commercial locations
- Algeria • Australia • Austria • Belgium • China
- Canada • Dubai (United Arab Emirates) • France
- Germany • India • Indonesia • Italy • Ivory Coast
- Malaysia • Netherlands • Poland • Portugal
- Romania • Serbia • Singapore • Slovenia
- South Africa • Spain • Sweden • Switzerland
- Thailand • Tunisia • Turkey • UK • USA

80 countries where our brand is distributed

The specialist for critical applications

- Control, command of LV facilities
- Safety of persons and assets
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